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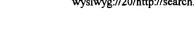
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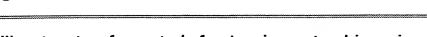
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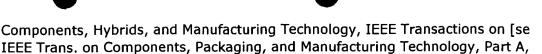
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[Abstract] [PDF Full-Text (380 KB)] IEEE JNL

73 Sailing off the edge of the earth. . . again

Greenbaum, J.R.;

Circuits and Devices Magazine, IEEE, Volume: 7 Issue: 3, May 1991

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74 Inferring feasible assemblies from spatial constraints

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[Abstract] [PDF Full-Text (1004 KB)] IEEE JNL

75 Robotic collision avoidance in a flexible assembly cell using a dynami knowledge base

Manivannan, S.;

Systems, Man and Cybernetics, IEEE Transactions on , Volume: 23 Issue: 3 , Ma

1993

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[Abstract] [PDF Full-Text (1412 KB)] IEEE JNL

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Member Services O Join IEEE O Establish IEEE	[Abstract] [PDF Full-Text (736 KB)] IEEE JNL 77 Fuzzy logic for depth control of Unmanned Undersea Vehicles DeBitetto, P.A.;
Web Account — Access the IEEE Member Digital Library	Oceanic Engineering, IEEE Journal of , Volume: 20 Issue: 3 , July 1995 Page(s): 242 -248
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78 Wire-antenna designs using genetic algorithms

Altshuler, E.E.; Linden, D.S.;

Antennas and Propagation Magazine, IEEE , Volume: 39 Issue: 2 , April 1997

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79 Hybrid optical-electrical overlay test structure

Cresswell, M.W.; Allen, R.A.; Linholm, L.W.; Guthrie, W.F.; Penzes, W.B.; Gurne A.W.;

Semiconductor Manufacturing, IEEE Transactions on , Volume: 10 Issue: 2 , May Page(s): 250 -255

[Abstract] [PDF Full-Text (156 KB)] IEEE JNL

80 A-SMGCS routing and guidance functions

Piazza, E.;

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81 A neuron adaptive detecting approach of harmonic current for APF an realization of analog circuit

Qun Wang; Ning Wu; Zhaoan Wang;

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2001

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82 Switching overvoltages in motor circuits

Berth, M.; Kung, M.; Limbeek, E.F.D.E.;

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[Abstract] [PDF Full-Text (157 KB)] IEEE JNL

83 Soft fault detection and isolation in analog circuits: some results and comparison between a fuzzy approach and radial basis function network Catelani, M.; Fort, A.;

Instrumentation and Measurement, IEEE Transactions on , Volume: 51 Issue: 2 2002

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[Abstract] [PDF Full-Text (245 KB)] IEEE JNL

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1 Rule condition testing and action execution in Ariel

Eric N. Hanson

June 1992 ACM SIGMOD Record , Proceedings of the 1992 ACM SIGMOD internati Volume 21 Issue 2

Full text available: pdf(1.06 MB)

Additional Information: full citation, abstract, references,

This paper describes testing of rule conditions and execution of rule actions in is tightly coupled with query and update processing. Ariel rules can have cond and transitions. For testing rule conditions, Ariel makes use of a discriminatio structure for testing single-relation selection conditions efficiently, and a mod A-TREAT, ...

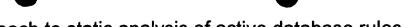
² A predicate matching algorithm for database rule systems

Eric N. Hanson, Moez Chaabouni, Chang-Ho Kim, Yu-Wang Wang May ¹⁹⁹⁰ ACM SIGMOD Record, Proceedings of the 1990 ACM SIGMOD internatio Volume 19 Issue 2

Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, references,

Forward-chaining rule systems must test each newly asserted fact against a c that match the fact. Expert system rule engines use a simple combination of matching. We introduce an algorithm for finding the matching predicates that algorithm when the number of predicates is large. We focus on equality and i domains. This algorithm is well ...



3 An algebraic approach to static analysis of active database rules

Elena Baralis, Jennifer Widom

September 2000 ACM Transactions on Database Systems (TODS), Volume 2

Full text available: pdf(391.93 KB)

Additional Information: full citation, abstract, reference

Rules in active database systems can be very difficult to program due to the u rule processing. We provide static analysis techniques for predicting whether and whether rule execution is confluent (guaranteed to have a unique final st techniques for analyzing rules in active database systems. We improve consid providing analysis criter ...

Keywords: active database systems, confluence, database rule processing, da

4 Efficient tests for top-down termination of logical rules

Jeffrey D. Ullman, Allen Van Gelder

April 1988

Journal of the ACM (JACM), Volume 35 Issue 2

Full text available: pdf(2.32 MB)

Additional Information: full citation, abstract, references, citin

Considered is the question of whether top-down (Prolog-like) evaluation of a terminate. The NAIL! system is designed to process programs consisting of lo of the program, the best from among many possible strategies for its evaluat essential that termination tests be fast. Thus, the "uniqueness" property is ...

⁵ Set-oriented constructs: from Rete rule bases to database systems

Douglas N. Gordin, Alexander J. Pasik

April 1991 ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international Volume 20 Issue 2

Full text available: pdf(733.87 KB)

Additional Information: full citation, references, c

6 Discrimination network for rule condition matching in object-oriented database Moez Chaabouni, Soon M. Chung

February 1995

Proceedings of the 1995 ACM symposium on Applied computin

Full text available: pdf(641.89 KB)

Additional Information: full citation, references, ind

Keywords: discrimination network, object-oriented database rule system, patt



John V. Harrison

December 1993 Proceedings of the second international conference on Information

Full text available: pdf(1.13 MB)

Additional Information: full citation, references, index

8 A practical approach to static analysis and execution of rules in active data Seung-Kyum Kim, Sharma Chakravarthy
January 1997 Proceedings of the sixth international conference on Information and Full text available: pdf(1.20 MB)

Additional Information: full citation, references, index te

Olumn: Generating consistent test data: restricting the search space by a Andrea Neufeld, Guido Moerkotte, Peter C. Lockemann April 1993 The VLDB Journal — The International Journal on Very Large D

Full text available: 📆 pdf(2.31 MB)

Additional Information: full citation, abstract, refer

To address the problem of generating test data for a set of general consistenc approach: First the interdependencies between consistency constraints are ex on their basis. During its creation, the user may exert control. In essence, the restrict the search for consistent test databases. In the second step, the test approaches are pr ...

Keywords: consistency, design, logic, test data, validation

¹⁰ Poster papers: Construct robust rule sets for classification

Jiuyong Li, Rodney Topor, Hong Shen

July 2002 Proceedings of the eighth ACM SIGKDD international conference on Kn Full text available: pdf(612.74 KB)

Additional Information: full citation, abstract, refer

We study the problem of computing classification rule sets from relational dat made on test data with missing attribute values. Traditional classifiers perform as the training data because they tailor a training database too much. We intr more robust than another, that is, able to make more accurate predictions on show that the opti ...

Keywords: association rule, classification rule, data mining



John D. Holt, Soon M. Chung

November 1999 Proceedings of the eighth international conference on Informatio Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, referen

In this paper, we propose two new algorithms for mining association rules bet characteristics of text databases are quite different from those of retail transa algorithms cannot handle text databases efficiently because of the large num counted. Two well-known mining algorithms, Apriori algorithm and Direct Has evaluated in the context of min ...

12 Automating software analysis and testing using a program transformation s G. Kotik, L. Markosian

November 1989 ACM SIGSOFT Software Engineering Notes , Proceedings of the AC Software testing, analysis, and verification, Volume 14 Issue 8

Full text available: pdf(888.08 KB)

Additional Information: full citation, abstract, reference

We describe an approach to software analysis and test generation that combin databases and parsers for capturing and representing software; pattern langu querying and analyzing a database of software; and transformation rules for a on the analysis results, and for automatically creating program " mutan coverage of the test cases. We pre ...

13 Beyond market baskets: generalizing association rules to correlations

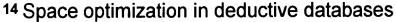
Sergey Brin, Rajeev Motwani, Craig Silverstein

June 1997 ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD internati Volume 26 Issue 2

Full text available: pdf(1.59 MB)

Additional Information: full citation, abstract, references,

One of the most well-studied problems in data mining is mining for associatio rules, whose significance is measured via support and confidence, are intende customer purchasing item A often also purchases item B." Motivated b baskets and the association rules used with them, we develop the notion of m (generalizing associations ...



Divesh Srivastava, S. Sudarshan, Raghu Ramakrishnan, Jeffrey F. Naughton December 1995 ACM Transactions on Database Systems (TODS), Volume 20

Full text available: pdf(3.22 MB)

Additional Information: full citation, abstract, references, in

In the bottom-up evaluation of logic programs and recursively defined views o usually assumed to be stored until the end of the evaluation. Discarding facts considerably improve the efficiency of the evaluation: the space needed to ev costs of maintaining and accessing indices, and the cost of eliminating duplica evaluation method that is sound, compl ...

Keywords: bottom-up query evaluation deductive database systems, discardin

15 On the Complexity of Testing Implications of Functional and Join Depender David Maier, Yehoshua Sagiv, Mihalis Yannakakis

October 1981

Journal of the ACM (JACM), Volume 28 Issue 4

Full text available: pdf(1.08 MB)

Additional Information: full citation, references, citings, index terms

¹⁶ Index support for rule activation

David A. Brant, Daniel P. Miranker

June 1993 ACM SIGMOD Record, Proceedings of the 1993 ACM SIGMOD international Volume 22 Issue 2

Full text available: pdf(888.85 KB)

Additional Information: full citation, abstract, reference

Integrated rule and database systems are quickly moving from the research I However, the current generation of prototypes are designed to work with sma The problem of supporting large complex rule programs within database mana challenges. The basis for many of these challenges is providing support for ru the process of determining ...

17 Special issue on prototypes of deductive database systems: The aditi dedu Jayen Vaghani, Kotagiri Ramamohanarao, David B. Kemp, Zoltan Somogyi, Pete April 1994 The VLDB Journal — The International Journal on Very Large D Full text available: pdf(2.67 MB)

Additional Information: full citation, abstract, refer

Deductive databases generalize relational databases by providing support for is a deductive system based on the client-server model; it is inherently multion shared-memory multiprocessors. The back-end uses relational technology disk-based data and uses optimization algorithms especially developed for the involving recursion. The front ...

Keywords: implementation, logic, multi-user, parallelism, relational database

¹⁸ A statistical theory for quantitative association rules

Yonatan Aumann, Yehuda Lindell

August 1999 Proceedings of the fifth ACM SIGKDD international conference on Kno

Full text available: pdf(1.22 MB)

Additional Information: full citation, references, citings,

19 Concepts and implementation of a rule-based process engine
Burkhard Peuschel, Wilhelm Schäfer
June 1992 Proceedings of the 14th international conference on Software engineer
Full text available: pdf(1.77 MB)
Additional Information: full citation, references, citings, index terms

²⁰ Polynomial-time program transformations in deductive databases

Yatin P. Saraiya

April 1990 Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references,

We investigate the complexity of various optimization techniques for logic dat polynomial-time algorithms for restricted versions of common program transf relaxation of these restrictions leads to NP-hardness. To this end, we define t queries, and show that while the 2-containment problem is in P, the 3-contain

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22 A framework for testing safety and effective computability of extended data
Ravi Krishnamurthy, Raghu Ramakrishnan, Oded Shmueli
June 1988 Proceedings of the 1988 ACM SIGMOD international conference on M
Full text available: pdf(1.32 MB)

Additional Information: full citation, abstract, references,

This paper presents a methodology for testing a general logic program contain predicates for safety and effective computability. Safety is the property that t finite. A related issues is whether the evaluation strategy can effectively com consider these problems under the assumption that queries are evaluated usi

12/13/03 7:24 PM



May 1983 Proceedings of the 1983 ACM SIGMOD international conference on M Full text available: pdf(1.35 MB)

Additional Information: full citation, abstract, refere

We study how functional dependencies affect the cyclicity of a database schem functional dependencies make a cyclic database scheme behave like an acycli every pairwise-consistent database state that satisfies the fd's is join-consiste fd-acyclicity over a restricted class of database schemes. We then give a table case that leads to a ...

²⁴ Coordinating rule-based software processes with ESP

Paolo Ciancarini

July 1993 ACM Transactions on Software Engineering and Methodology (TOSEM Full text available: pdf(1.71 MB)

Additional Information: full citation, abstract, references,

ESP is a language for modeling rule-based software processes that take place environment. It is based on PoliS, an abstract coordination model that relies o tuples a la Linda. PoliS extends Linda aiming at the specification and coordina (Extended Shared Prolog) combines the PoliS mechanisms to deal with conculogic-programming language ...

Keywords: concurrency, logic programming, multiuser programming environm process, software process modeling

²⁵ Cactis: a self-adaptive, concurrent implementation of an object-oriented da Scott E. Hudson, Roger King

September 1989 ACM Transactions on Database Systems (TODS), Volume 1
Full text available: pdf(2.65 MB) Additional Information: full citation, abstract, references, citing

Cactis is an object-oriented, multiuser DBMS developed at the University of C functionally-defined data and uses techniques based on attributed graphs to o functionally-defined data. The implementation is self-adaptive in that the phy algorithms dynamically change in order to reduce disk access. The system is are some number of computations that must be performed t ...

²⁶ Implementation of logical query languages for databases

Jeffrey D. Ullman

September 1985 ACM Transactions on Database Systems (TODS), Volume 1
Full text available: pdf(2.66 MB) Additional Information: full citation, abstract, references, citin

We examine methods of implementing queries about relational databases in t in first-order logic as a collection of Horn clauses. Because queries may be de of query evaluation do not always work, and a variety of strategies have been queries. We express such query evaluation techniques as "capture rule and predicates. One ess ...

2 of 7 12/13/03 7:24 PM

²⁷ A framework for testing database applications

David Chays, Saikat Dan, Phyllis G. Frankl, Filippos I. Vokolos, Elaine J. Weber August 2000 ACM SIGSOFT Software Engineering Notes, Proceedings of the Intern and Analysis, Volume 25 Issue 5

Full text available: pdf(557.89 KB)

Additional Information: full citation, abstract, reference

Database systems play an important role in nearly every modern organization focused on how to test them. This paper discusses issues arising in testing da to testing database applications. In testing such applications, the state of the operation plays an important role, along with the user's input and the system with meaningful dat ...

Keywords: database, software testing, test data

28 Static analysis techniques for predicting the behavior of active database rul Alexander Aiken, Joseph M. Hellerstein, Jennifer Widom

March 1995 ACM Transactions on Database Systems

ACM Transactions on Database Systems (TODS), Volume 20 Iss

Full text available: pdf(2.79 MB)

Additional Information: full citation, abstract, references, citing

This article gives methods for statically analyzing sets of active database rule guaranteed to terminate, (2) guaranteed to produce a unique final database s unique stream of observable actions. If the analysis determines that one of th isolates the rules responsible for the problem and determines criteria that, if analysis methods are presented ...

Keywords: active database systems, confluence, database rule processing, sta

²⁹ Testing implications of data dependencies

David Maier, Alberto O. Mendelzon, Yehoshua Sagiv

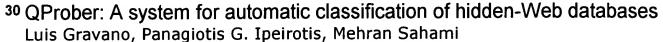
December 1979 ACM Transactions on Database Systems (TODS), Volume 4

Full text available: pdf(1.14 MB)

Additional Information: full citation, abstract, references,

Presented is a computation method— the chase— for testing imp data dependencies. The chase operates on tableaux similar to those of Aho, S previous tableau computation methods as special cases. By interpreting table templates for relations, it is possible to test implication of join dependencies (functional dependenc ...

Keywords: chase, data dependencies, functional dependencies, join dependen databases, tableaux



January 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Full text available: pdf(3.62 MB)

Additional Information: full citation, abstract, reference

The contents of many valuable Web-accessible databases are only available t invisible to traditional Web "crawlers." Recently, commercial Web sites have s Web-accessible databases into Yahoo!-like hierarchical classification schemes system that automates this classification process by using a small number of classifiers. OProber can use a variety of types of ...

Keywords: Database classification, Web databases, hidden Web

³¹ Probe, count, and classify: categorizing hidden web databases

Panagiotis G. Ipeirotis, Luis Gravano, Mehran Sahami

May 2001 ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD internatio Volume 30 Issue 2

Full text available: pdf(389.34 KB)

Additional Information: full citation, abstract, reference

The contents of many valuable web-accessible databases are o interfaces and are hence invisible to traditional web "cra estimated the size of this "hidden web" to be 500 "crawlable" web is only an estimated two billion sites have started to manually organize web-accessible database classification schemes ...

32 On the decidability and axiomatization of query finiteness in deductive data Michael Kifer

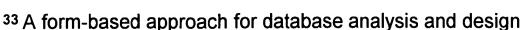
July 1998 Journal of the ACM (JACM), Volume 45 Issue 4

Full text available: T pdf(323.85 KB)

Additional Information: full citation, abstract, referen

A database query is finite if its result consists of a finite sets tuples. For queri the problem of determining finiteness is, in general, undecidable. In this pape stronger kind of finiteness, which applies to Horn queries whose function syminfinite relations with finiteness constraints (abbr., F ...

Keywords: axiomatization, computability, finite queries, finiteness constraints constraints, query processing



Joobin Choobineh, Michael V. Mannino, Veronica P. Tseng February 1992 Communications of the ACM, Volume 35 Issue 2

Full text available: pdf(8.75 MB) Additional Information: full citation, references, index terms, review

Keywords: form processing, view definition, view integration

34 Discovery of multi-level rules and exceptions from a distributed database Rónán Páircéir, Sally McClean, Bryan Scotney

August 2000 Proceedings of the sixth ACM SIGKDD international conference on Kn Full text available: pdf(132.32 KB)

Additional Information: full citation, references, i

Keywords: aggregates, distributed databases, exception discovery, multi-leve sufficient statistics

³⁵ Safe query languages for constraint databases

Peter Z. Revesz

March 1998 ACM Transactions on Database Systems (TODS), Volume 23 Is

Full text available: 📆 pdf(295.75 KB)

Additional Information: full citation, abstract, reference

In the database framework of Kanellakis et al. [1990] it was argued that cons constraint databases as input and give other constraint databases that use th output. This closed-form requirement has been difficult to realize in constrain negation symbol. This paper describes a general approach to restricting const subsets that contain only programs ...

³⁶ Closures of database hypergraphs

Domenico Saccà

October 1985 Journal of the ACM (JACM), Volume 32 Issue 4

Full text available: pdf(2.51 MB)

Additional Information: full citation, abstract, references, citi

A hypergraph formalism is introduced to represent database schemata. In par one full join dependency and a set of functional dependencies, is represented both undirected and directed hyperedges. Undirected hyperedges correspond directed hyperedges correspond to the functional dependencies. In addition, t

³⁷ Rule based database access control—a practical approach

Tor Didriksen

November 1997 Proceedings of the second ACM workshop on Role-based access co

Full text available: pdf(1.01 MB)

Additional Information: full citation, references, index terms

38 Rule-based optimization and query processing in an extensible geometric of Ludger Becker, Ralf Hartmut Güting

June 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issu Full text available: pdf(3.35 MB) Additional Information: full citation, abstract, references, citin

Gral is an extensible database system, based on the formal concept of a man algebra is used to define any application's query language, its query executio this paper we describe Gral's optimization component. It provides (1) a sophi transformations of abstract algebra expressions, (2) a general optimization fra optimization algorithms can be ...

Keywords: extensibility, geometric query processing, many-sorted algebra, op optimization

³⁹ Answering queries on embedded-complete database schemes

Edward P. F. Chan, Alberto O. Mendelzon

April 1007

April 1987 Journal of the ACM (JACM), Volume 34 Issue 2

Full text available: pdf(2.22 MB)

Additional Information: full citation, abstract, references, citin

It has been observed that, for some database schemes, users may have diffic for simple queries. The problem occurs when some implicit "piece&rdqu of a relation scheme, is not explicitly represented in the database state. In th how the state and the constraints interact before they can retrieve the inform not ...

40 Measuring system normality

Mark Burgess, Hårek Haugerud, Sigmund Straumsnes, Trond Reitan

May 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issu

Full text available: pdf(794.43 KB)

Additional Information: full citation, abstract, refere

A comparative analysis of transaction time-series is made, for light to modera problem of anomaly detection in computers. Criteria for measuring the statist a scaling transformation to the measured data, it is found that the distribution approximated by a steady-state, maximum-entropy distribution, modulated b distribution, under these con ...

Keywords: Anomaly detection, statistical mechanics

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41 Special issue on prototypes of deductive database systems: The glue-nail (implementation, and evaluation

Marcia A. Derr, Shinichi Morishita, Geoffrey Phipps

April 1994 The VLDB Journal — The International Journal on Very Large D
Full text available: pdf(2.16 MB)
Additional Information: full citation, abstract,

We describe the design and implementation of the Glue-Nail deductive databa query language; Glue is a procedural language used for non-query activities. to write a complete application. Nail and Glue code are both compiled into the uses variants of the magic sets algorithm and supports well-founded models. peephole techniques and data ...

Keywords: language, performance, query optimization

42 Exploratory mining and pruning optimizations of constrained associations re Raymond T. Ng, Laks V. S. Lakshmanan, Jiawei Han, Alex Pang

June 1998 ACM SIGMOD Record, Proceedings of the 1998 ACM SIGMOD internati Volume 27 Issue 2

Full text available: pdf(1.65 MB)

Additional Information: full citation, abstract, references,

From the standpoint of supporting human-centered discovery of knowledge, t rules suffers from the following serious shortcomings: (i) lack of user explora rigid notion of relationships. In effect, this model functions as a black-box, ad We propose, in this paper, an architecture that opens up the black-box, and s explorat ...

43 Fuzzy functional dependencies and lossless join decomposition of fuzzy rel K. V. S. V. N. Raju, Arun K. Majumdar

June 1988 ACM Transactions on Database Systems (TODS), Volume 13 Issu Full text available: pdf(3.05 MB)

Additional Information: full citation, abstract, references, citin

This paper deals with the application of fuzzy logic in a relational database en more meaning of the data. It is shown that with suitable interpretations for th relational data model can be used to represent ambiguities in data values as among them. Relational operators for fuzzy relations have been studied, and integrity constraint ...

44 Automatic verification of database transaction safety

Tim Sheard, David Stemple

September 1989 ACM Transactions on Database Systems (TODS), Volume 1

Full text available: pdf(3.34 MB)

Additional Information: full citation, abstract, references, citin

Maintaining the integrity of databases is one of the promises of database man that integrity constraints are invariants of database transactions. This is very presence of complex constraints and large amounts of data. One way to minim maintain database integrity over transaction processing is to prove at compile atomically, disobey i ...

45 Extending performance approaches to new application domains: An optimize configuration

David Bartholomew Stewart, Efstathios Papaefstathiou, Jonathan Hardwick

July 2002 Proceedings of the third international workshop on Software and per

Full text available: pdf(220.16 KB)

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A common problem that sales consultants face in the field is the selection of a configuration for web farms. Over-provisioning means that the tender will be lead to a configuration that does not meet the customer criteria. Indy is a per allows developers to create custom modeling applications. We have construct web farm workloads and topologies. T ...

Keywords: design, experimentation, indy, infrastructures, measurement, mod simulation

46 A methodology for creating user views in database design

Veda C. Storey, Robert C. Goldstein

September 1988 ACM Transactions on Database Systems (TODS), Volume 1
Full text available: pdf(2.41 MB) Additional Information: full citation, abstract, references, citin

The View Creation System (VCS) is an expert system that engages a user in a requirements for some application, develops an Entity-Relationship model for converts the E-R model to a set of Fourth Normal Form relations. This paper d is, it presents a formal methodology, capable of mechanization as a computer a user, identifying and resolving incons ...

47 Optimization of a cycle time and utilization in semiconductor test manufactunear-real-time scheduling system

Appa Iyer Sivakumar

December 1999 Proceedings of the 31st conference on Winter simulation: Simulati Full text available: pdf(142.30 KB)

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48 Process synchronization in database systems

Gunter Schlageter

September 1978 ACM Transactions on Database Systems (TODS), Volume

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The problem of process synchronization in database systems is analyzed in a abstract level; the abstraction is chosen such that the essential characteristic and investigated. Using a small set of concepts, a consistent description of th used, but only vaguely defined, notions are defined exactly within this framew problem immediately leads ...

Keywords: database consistency, database systems, integrity, locking, paralle

49 Heraclitus: elevating deltas to be first-class citizens in a database program Shahram Ghandeharizadeh, Richard Hull, Dean Jacobs

September 1996 ACM Transactions on Database Systems (TODS), Volume 2

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Traditional database systems provide a user with the ability to query and man current database state. However, in several emerging applications, the ability scenarios in order to reason about the impact of an update (before committin Example applications include hypothetical database access, active database m management, to name a few. The central th ...

Keywords: active databases, deltas, execution model for rule application, hyp state

⁵⁰ An integrated general purpose automated test environment

Peter A. Vogel

July 1993 ACM SIGSOFT Software Engineering Notes , Proceedings of the 1993 in and analysis, Volume 18 Issue 3

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As software systems become more and more complex, both the complexity of maintaining the results of that effort increase proportionately. Most existing t flexibility needed to adequately test significant software systems. The CONVE discussed as an answer to the need for a more complete and powerful genera

51 A unified version model for configuration management

Andreas Zeller

October 1995 ACM SIGSOFT Software Engineering Notes, Proceedings of the 3rd A of software engineering, Volume 20 Issue 4

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⁵² A Theory of Safe Locking Policies in Database Systems

Mihalis Yannakakis

July 1982 Journal of the ACM (JACM), Volume 29 Issue 3

Full text available: pdf(1.33 MB) Additional Information: full citation, references, citings, index terms

53 Mining association rules between sets of items in large databases

Rakesh Agrawal, Tomasz Imieli?ski, Arun Swami

June 1993 ACM SIGMOD Record, Proceedings of the 1993 ACM SIGMOD international Volume 22 Issue 2

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We are given a large database of customer transactions. Each transaction con visit. We present an efficient algorithm that generates all significant associati The algorithm incorporates buffer management and novel estimation and pru applying this algorithm to sales data obtained from a large retailing company algorithm.

54 Integrating association rule mining with relational database systems: altern Sunita Sarawagi, Shiby Thomas, Rakesh Agrawal

June 1998 ACM SIGMOD Record, Proceedings of the 1998 ACM SIGMOD internati Volume 27 Issue 2

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Additional Information: full citation, abstract, references,

Data mining on large data warehouses is becoming increasingly important. In spectrum of architectural alternatives for coupling mining with database syste loose-coupling through a SQL cursor interface; encapsulation of a mining algo data to a file system on-the-fly and mining; tight-coupling using primarily use implementations for processing in the DBMS. We ...

12/13/03 7:24 PM

55 Maintaining state constraints in relational databases: a proof theoretic basis William W. McCune, Lawrence J. Henschen

January 1989 Journal of the ACM (JACM), Volume 36 Issue 1

Full text available: pdf(1.79 MB)

Additional Information: full citation, abstract, references, citin

If a relational database is required to satisfy a set of integrity constraints, the ensure that it continues to satisfy the constraints. It is desirable not to have t update. A method is described that takes a constraint C and a class of update class cannot violate C, or produces a formula C' (a complete test) that is satis

56 Semantics of query languages for network databases

Kazimierz Subieta

September 1985 ACM Transactions on Database Systems (TODS), Volume 1
Full text available: pdf(3.71 MB)

Additional Information: full citation, abstract, reference

Semantics determines the meaning of language constructs; hence it says muc implementing the language. The main purpose of this paper is a formal prese constructs employed in many database languages (sublanguages). Therefore, Selection Language) and J (Joins) are introduced, wherein most of the typical are collected. The semantics of SSL and J are ...

⁵⁷ A design rule database system to support technology-adaptable application

J. S. Aude, Hillary J. Kahn

July 1986 Proceedings of the 23rd ACM/IEEE conference on Design automatio
Full text available: pdf(722.49 KB) Additional Information: full citation, abstract, references

This paper describes aspects of a CAD system which has been specifically des applications and to incorporate expert system processes where appropriate. T use design rules stored in a database to supply technology related information supported in the database are concerned with different aspects of design, suc rules are described i ...

58 On the Desirability of Acyclic Database Schemes

Catriel Beeri, Ronald Fagin, David Maier, Mihalis Yannakakis July 1983 Journal of the ACM (JACM), Volume 30 Issue 3

Full text available: pdf(2.10 MB) Additional Information: full citation, references, citings, index terms

⁵⁹ Design issues in a Rule-Based System

Stephen Fickas

June 1985 Proceedings of the ACM SIGPLAN 85 symposium on Language issues in 18 Issue 7, 6

Full text available: pdf(733.76 KB)

Additional Information: full citation, abstract, refer

This paper discusses a language and associated environment for building rule environment are encapsulated in a system we call ORBS (Oregon Rule Based focus will be on the interplay between language and environment design. How include design constraints placed by our program development model1 as we rationalization o ...

⁶⁰ A database interface for file update

Serge Abiteboul, Sophie Cluet, Tova Milo

May 1995 ACM SIGMOD Record, Proceedings of the 1995 ACM SIGMOD internatio Volume 24 Issue 2

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references,

Database systems are concerned with structured data. Unfortunately, data is manner (e.g., in files) even when it does have a strong internal structure (e.g previous paper [2], we focussed on the use of high-level query languages to a optimization techniques to do so. In this paper, we consider how structured d database update languages. ...

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PAT. NO. Title

- 1 6,430,730 Flash configuration cache
- 2 6,119,174 Methods and apparatus for implementing quality-of-service guarantees in data storage systems
- 3 6,115,547 T Flash configuration cache
- 4 6,016,393 System and method for distributed computation based upon the movement, execution, and interaction of processes in a network
- 5 5,809,212 T Conditional transition networks and computational processes for use interactive computer-based systems
- 6 5,603,031 T System and method for distributed computation based upon the movement, execution, and interaction of processes in a network
- 7 5,452,239 Method of removing gated clocks from the clock nets of a netlist for timing sensitive implementation of the netlist in a hardware emulation system

